

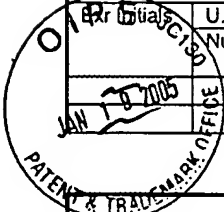
Form PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/666,088
		Filing Date	September 19, 2003
		First Named Inventor	Don M. Hannegan
		Group Art Unit	3673
		Examiner Name	
Sheet	1 of 1	Attorney Docket Number	H055010.0048US0


U.S. PATENT DOCUMENTS			
Exr Initials	U.S. Patent Document Number	Kind Code (if known)	Name of Inventor or Applicant of Cited Document Date of Publication of Cited Document MM-YYYY
~	3,443,643		Jones 05-1969




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Exr Initials		Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or county where published.	T ₁
~	KKKK	Supplementary European Search Report No. EP 99908371, 3 pages (Date of Completion October 22, 2004)	

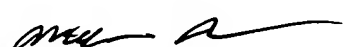
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	Number	Kind Code (if known)		MM-YYYY	
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	Country Code	Number	Kind Code (if known)			
	PCT	WO 99/45228	A1	Bourgoyne, et al	09-1999	
	PCT	WO 00/52300	A1	Hannegan, et al	09-2000	

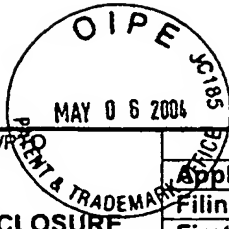
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	HHHH	TERWOGT, JAN, "Pressured Mud Cap Drilling - Advanced Well Control for Subsea Wells," Petromin Subsea Asia Conference, Kuala Lumpur, Malaysia, 8 pages (September 20-21, 2004)			
	IIII	PCT Search Report, International Application No. PCT/EP2004/052167, 4 pages (Date of Completion November 25, 2004)			
	JJJJ	PCT Written Opinion of the International Searching Authority, International Application No. PCT/EP2004/052167, 6 pages			

Examiner Signature		Date Considered	8/15/05
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U.S. PATENT DOCUMENTS				
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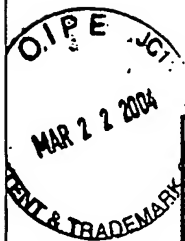
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		Group Art Unit	3673
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/	ZZ	Helio Santos, Email message to Don Hannegan, et al., 1 page, (August 20, 2001)	
/	FFFF	BOYLE, JOHN; "Multi Purpose Intervention Vessel Presentation," M.O.S.T. Multi Operational Service Tankers, Weatherford International, January 2004, 43 pages, (© 2003)	
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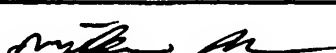
Substitute for form 1449A/PTO		Complete if Known	
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		Attorney Docket Number	H055010.0048US0

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Examiner Signature		Date Considered	5/15/05
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/666,088
		Filing Date	September 19, 2003
		First Named Inventor,	Don M. Hannegan
		Group Art Unit	3673
		Examiner Name	
Sheet 3 of 11	Attorney Docket Number		H055010.0048US0

U.S. PATENT DOCUMENTS				
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✓	3,347,567		Watkins	10/1967
✓	3,360,048		Watkins	12/1967
✓	3,372,761		van Gils	03/1968
✓	3,387,851		Cugini	06/1968
✓	3,397,928		Galle	08/1968
✓	3,400,938		Williams	09/1968
✓	3,445,126		Watkins	05/1969
✓	3,452,815		Watkins	07/1969
✓	3,472,518		Harlan	10/1969
✓	3,476,195		Galle	11/1969
✓	3,485,051		Watkins	12/1969
✓	3,492,007		Jones	01/1970
✓	3,493,043		Watkins	02/1970
✓	3,529,835		Lewis	09/1970
✓	3,587,734		Shaffer	06/1971
✓	3,603,409		Watkins	09/1971
✓	3,621,912		Woody, Jr.	11/1971
✓	3,631,834		Gardner, et al.	01/1972
✓	3,638,721		Harrison	02/1972
✓	3,638,742		Wallace	02/1972
✓	3,653,350		Koons, et al.	04/1972
✓	3,661,409		Brown et al	05/1972
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✓	3,667,721		Vujasinovic	06/1972
✓	3,677,353		Baker	07/1972
✓	3,724,862		Biffle	04/1973
✓	3,779,313		Regan	12/1973
✓	3,815,673		Bruce, et al.	06/1974
✓	3,827,511		Jones	08/1974
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✓	3,952,526		Watkins et al	04/1976
✓	3,955,622		Jones	05/1976
✓	3,965,987		Biffle	06/1976
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✓	3,992,889		Watkins et al	11/1976
✓	3,999,766		Barton	12/1976
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Examiner Signature		Date Considered	5/15/08
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
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Sheet 4 of 11	Attorney Docket Number H055010.0048US0		

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<i>[Signature]</i>	4,456,063		Roche	06/1984

Examiner Signature	<i>[Signature]</i>	Date Considered	8/15/05
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	Number	Kind Code (if known)		
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Examiner Signature		Date Considered	8/15/05
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	PCT	WO 99/50524	A2	Mott, et al.	10/1999	
	PCT	WO 99/50524	A3	Mott, et al.	12/1999	
	PCT	WO 99/51852	A1	Bridges, et al.	10/1999	

U.S. PATENT RELATED APPLICATIONS				
Exr Initials	APPLICATION NO.	ATTY. DOCKET NO.	Status or Patentee	Date of Filing or Issue
M	60/079,641	09432/160001	Abandoned, but Priority Claimed in above U.S. Patent Nos. 6,230,824B1 and 6,102,673 and PCT WO 99/50524	March 27, 1998

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/666,088
		Filing Date	September 19, 2003
		First Named Inventor	Don M. Hannegan
		Group Art Unit	3673
		Examiner Name	
Sheet	7	of	11
		Attorney Docket Number	H055010.0048US0

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Exr Initials		Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or county where published.	T ₁
	A	The Modular T BOP Stack System, Cameron Iron Works © 1985 (5 pages)	
	B	Cameron HC Collet Connector, ©1996 Cooper Cameron Corporation, Cameron Division (12 pages)	
	C	Riserless drilling: circumventing the size/cost cycle in deepwater - Conoco, Hydril project seek enabling technologies to drill in deepest water depths economically, May 1996 Offshore Drilling Technology (pages 49, 50, 52, 53, 54 and 55)	
	D	Williams Tool Company - Home Page - Under Construction Williams Rotating Control Heads (2 pages); Seal-Ability for the pressures of drilling (2 pages); Williams Model 7000 Series Rotating Control Heads (1 page); Williams Model 7000 & 7100 Series Rotating Control Heads (2 pages); Williams Model IP1000 Rotating Control Head (2 pages); Williams Conventional Models 8000 & 9000 (2 pages); Applications Where using a Williams rotating control head while drilling is a plus (1 page); Williams higher pressure rotating control head systems are IDEALLY SUITED FOR NEW TECHNOLOGY FLOW DRILLING AND CLOSED LOOP UNDERBALANCED DRILLING (UBD) VERTICAL AND HORIZONTAL (2 pages); and How to Contact Us (2 pages)	
	E	Offshore - World Trends and Technology for Offshore Oil and Gas Operations, March 1998, Seismic: Article entitled, "Shallow Flow Diverter JIP Spurred by Deepwater Washouts" (3 pages including cover page, table of contents and page 90)	
	F	Williams Tool Co., Inc. Rotating Control Heads and Strippers for Air, Gas, Mud, and Geothermal Drilling Worldwide - Sales Rental Service, ©1988 (19 pages)	
	G	Williams Tool Co., Inc. 19 page brochure ©1991 Williams Tool Co., Inc. (19 pages)	
	H	Fig. 14. Floating Piston Drilling Choke Design; May of 1997	
	I	Blowout Preventer Testing for Underbalanced Drilling by Charles R. "Rick" Stone and Larry A. Cress, Signa Engineering Corp., Houston, Texas, 24 pages, (Undated)	
	J	Williams Tool Co., Inc. Instructions, Assemble & Disassemble Model 9000 Bearing Assembly (cover page and 27 numbered pages)	
	K	Williams Tool Co., Inc. Rotating Control Heads Making Drilling Safer While Reducing Costs Since 1968, ©1989 (4 pages)	
	L	Williams Tool Company, Inc. International Model 7000 Rotating Control Head, © 1991 (4 pages).	
	M	Williams Rotating Control Heads, Reduce Costs Increase Safety Reduce Environmental Impact, 4 pages, (© 1995)	
	N	Williams Tool Co., Inc., Sales-Rental-Service, Williams Rotating Control Heads and Strippers for Air, Gas, Mud, and Geothermal Drilling, © 1982 (7 pages)	
	O	Williams Tool Co., Inc., Rotating Control Heads and Strippers for Air, Gas, Mud, Geothermal and Pressure Drilling, © 1991 (19 pages)	
	P	An article - The Brief January '96, The Brief's Guest Columnists, Williams Tool Co., Inc., Communicating December 13, 1995 (Fort Smith, Arkansas) The <i>When?</i> and <i>Why?</i> of Rotating Control Head Usage, Copyright © Murphy Publishing, Inc. 1996 (2 pages)	
	Q	A reprint from the October 9, 1995 edition of Oil & Gas Journal, "Rotating control head applications increasing", by Adam T. Bourgoyne, Jr., Copyright 1995 by PennWell Publishing Company (4 pages)	
	R	1966-1967 Composite Catalog-Grant Rotating Drilling Head for Air, Gas or Mud Drilling, (1 page)	
	S	1976-1977 Composite Catalog Grant Oil Tool Company Rotating Drilling Head Models 7068, 7368, 8068 (Patented), Equally Effective with Air, Gas, or Mud Circulation Media (3 pages)	

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mm	T	A Subsea Rotating Control Head for Riserless Drilling Applications; Darryl A. Bourgoyne, Adam T. Bourgoyne, and Don Hannegan - 1998 International Association of Drilling Contractors International Deep Water Well Control Conference held in Houston, Texas, August 26-27, 1998, 14 pages.	
	U	Hannegan, "Applications Widening for Rotating Control Heads," Drilling Contractor, cover page, table of contents and pages 17 and 19, Drilling Contractor Publications Inc., Houston, Texas, July 1996.	
	V	Composite Catalog, Hughes Offshore 1986-87 Subsea Systems and Equipment, Hughes Drilling Equipment Composite Catalog, two cover sheets and pages 2988-3004.	
	W	Williams Tool Co., Inc., Technical Specifications Model for The Model 7100, 3 pages.	
	X	Williams Tool Co., Inc. Website, Underbalanced Drilling (UBD), The Attraction of UBD 2 pages.	
	Y	Williams Tool Co., Inc. Website, "Applications, Where Using a Williams Rotating Control Head While Drilling is a Plus," 2 pages.	
	Z1	Williams Tool Co., Inc. Website, "Model 7100," 3 pages.	
	Z2	Composite Catalog, Hughes Offshore 1982/1983, Regan Products, © Copyright 1982, Two cover sheets and 4308-27 thru 4308-43, and end sheet	
	Z3	Coflexip Brochure; 1-Coflexip Sales Offices, 2-The Flexible Steel Pipe for Drilling and Service Applications, 3-New 5" I.D. General Drilling Flexible, 4-Applications, and 5-Illustration, 5 unnumbered pages.	
	AA	Baker, Ron, "A Primer of Oilwell Drilling", Fourth Edition, Published by Petroleum Extension Service, The University of Texas at Austin, Austin, Texas, in cooperation with International Association of Drilling Contractors Houston Texas © 1979, 3 cover pages and pages 42-49 re Circulation System.	
	BB	Brochure, Lock down Lubricator System, Dutch Enterprises Inc., "Safety with Savings," pages D-3 through D-18, See above U.S. Patent No. 4,836,289 referred to therein.	
	CC	Hydril GL series Annular Blowout Preventers (Patented - see Roche patents above), 2pages, (© 1998)	
	DD	Other Hydril Product Information (The GH Gas Handler Series Product is Listed), © 1996, Hydril Company, pages D-29 through D-47.	
	EE	Brochure, Shaffer Type 79 Rotating Blowout Preventer, NL Rig Equipment/NL Industries, Inc., pages D-49 thru D-54.	
	FF	Shaffer, A Varco Company, Cover page and pages 1562-1568.	
	GG	Avoiding Explosive Unloading of Gas in a Deep Water Riser When SOBM is in Use; Colin P. Leach & Joseph R. Roche; (The Paper Describes an Application for the Hydril Gas Handler, The Hydril GH 211-2000 Gas Handler is Depicted in Figure 1 of the Paper), 9 unnumbered pages, (Undated)	
mm	HH	Feasibility Study of Dual Density Mud System for Deepwater Drilling Operations; Clovis A. Lopes & A.T. Bourgoyne Jr.; Offshore Technology Conference Paper Number 8465, pages 257-266, (© 1997)	

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nn	II	April 1998 Offshore Drilling with Light Weight Fluids Joint Industry Project Presentation, pages C-3 thru C-11.	
	JJ	Nakagawa, Edson Y., Santos, Helio and Cunha, J.C., "Application of Aerated-Fluid Drilling in Deepwater", SPE/IADC 52787 Presented by Don Hannegan, P.E., SPE ©1999 SPE/IADC Drilling Conference, Amsterdam, Holland, 5 unnumbered pages, (March 9-11, 1999)	
	KK	Brochure: "Inter-Tech Drilling Solutions Ltd.'s RBOP™ Means Safety and Experience for Underbalanced Drilling", Inter-Tech Drilling Solutions Ltd./Big D Rentals & Sales (1981) Ltd., "Rotating BOP," 2 unnumbered pages.	
	LL	"Pressure Control While Drilling", Shaffer® A Varco Company, Rev. A, 2 unnumbered pages.	
	MM	"Field Exposure (As of August 1998), Shaffer® A Varco Company, 1 unnumbered page.	
	NN	Graphic: "Rotating Spherical BOP," 1 unnumbered page.	
	OO	"JIP's Work Brightens Outlook for UBD in Deep Waters" by Edson Yoshihito Nakagawa Helio Santos and Jose Carlos Cunha American Oil & Gas Reporter, pp. 52-53 56, 58-60, and 62-63, (April 1999)	
	PP	"Seal-Tech 1500 PSI Rotating Blowout Preventer", 3 unnumbered pages, (Undated)	
	QQ	"RPM System 3000™ Rotating Blowout Preventer, Setting a new standard in Well Control", by Techcorp Industries, 4 unnumbered pages, (Undated)	
	RR	"RiserCap™ Materials Presented at the 1999 LSU/MMS/IADC Well Control Workshop", by Williams Tool Company, Inc., pp. 1-14, (March 24-25, 1999)	
	SS	"The 1999 LSU/MMS Well Control Workshop: An overview," by JOHN ROGERS SMITH, World Oil, Cover page and pp. 4, 41-42, and 44-45, (June 1999)	
	TT	DAG OLUF NESSA, "Offshore underbalanced drilling system could revive field developments," World Oil, Vol. 218, No. 10, Color Copies of Cover Page and pp. 3, 83-84, 86, and 88, (October 1997)	
	UU	D. O. NESSA, "Offshore underbalanced drilling system could revive field developments", World Oil Exploration Drilling Production, Volume 218 No. 7, Color copies of Cover Page and pp. 3, 61-64, and 66, (July 1997)	
	VV	PCT Search Report, International Application No. PCT/US99/06695, 4 pages, (Date of Completion May 27, 1999)	
	WW	PCT Search Report, International Application No. PCT/GB00/00731, 3 pages, (Date of Completion June 16, 2000)	
	XX	National Academy of Sciences—National Research Council, "Design of a Deep Ocean Drilling Ship", Cover Page and pp. 114-121, Undated but cited in above U.S. Patent No. 6,230,824B1	
	YY	"History and Development of a Rotating Blowout Preventer," by A. CRESS, CLAYTON W. WILLIAMS, RICK STONE, and MIKE TANGEDAHL, IADC/SPE 23931, 1992 IADC/SPE Drilling Conference, pp. 757-773, (February 1992).	
	ZZ 1	REHM, BILL, "Practical Underbalanced Drilling and Workover," PETROLEUM EXTENSION SERVICE, THE UNIVERSITY OF TEXAS AT AUSTIN CONTINUING & EXTENDED EDUCATION, Cover page, title page, copyright page, and pp. 6-6, 11-2, 11-3, G-9, and G-10, (2002)	
nn	AAA	WILLIAMS TOOL COMPANY INC., "RISERCAP™: Rotating Control Head System For Floating Drilling Rig Applications", 4 unnumbered pages, (©1999 Williams Tool Company, Inc.), see reference to above U.S. Patent No. 5,662,181	

Examiner Signature		Date Considered	8/15/05
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mm	BBB	ANTONIO C.V.M. LAGE, HELIO SANTOS and PAULO R.C. SILVA, <i>Drilling With Aerated Drilling Fluid From a Floating Unit Part 2: Drilling the Well</i> , SPE 71361, 11 pages, (©2001, Society of Petroleum Engineers Inc.)	
	CCC	HELIO SANTOS, FABIO ROSA, and CHRISTIAN LEUCHTENBERG, <i>Drilling with Aerated Fluid from a Floating Unit, Part 1: Planning, Equipment, Tests, and Rig Modifications</i> , SPE/IADC 67748, 8 pages, (©2001 SPE/IADC Drilling Conference)	
	DDD	E. Y. NAKAGAWA, H. SANTOS, J. C. CUNHA and S. SHAYEGI, <i>Planning of Deepwater Drilling Operations with Aerated Fluids</i> , SPE 54283, 7 pages, (©1999, Society of Petroleum Engineers Inc.)	
	EEE	E. Y. NAKAGAWA, H.M.R. SANTOS and J.C. CUNHA, <i>Implementing the Light-Weight Fluids Drilling Technology in Deepwater Scenarios</i> , 1999 LSU/MMS Well Control Workshop March 24-25, 1999, 12 pages, paper and powerpoint presentation, (1999)	
	FFF 1	Press Release: "Stewart & Stevenson Introduces First Dual Gradient Riser," Stewart & Stevenson, http://www.ssss.com/sss/20000831.asp , 2 pages (8/31/2000)	
	GGG	WILLIAMS TOOL COMPANY INC., "Williams Tool Company Introduces the... Virtual Riser™," 4 unnumbered pages, (©1998 Williams Tool Company, Inc.)	
	HHH	"PETEX Publications." Petroleum Extension Service, University of Texas at Austin, 12 pages, (last modified December 6, 2002)	
	III	"BG in the Caspian region," SPE REVIEW, Issue 164, 3 unnumbered pages, (May, 2003)	
	JJJ	"Field Cases as of 3 March 2003," Impact Fluid Solutions, 6 pages, (3/3/2003.)	
	KKK	"Determine the Safe Application of Underbalanced Drilling Techniques in Marine Environments - Technical Proposal," Maurer Technology, Inc., Cover Page and pp. 2-13, (6/17/2002.)	
	LLL	COLBERT, JOHN W, "John W. Colbert, P.E. Vice President Engineering Biographical Data," Signa Engineering Corp., 2 unnumbered pages, (undated)	
	MMM	"Technical Training Courses," Parker Drilling Co., http://www.parkerdrilling.com/news/tech.html , 5 pages, (last visited, 9/5/2003)	
	NNN	"Drilling equipment: Improvements from data recording to slim hole," Drilling Contractor, pp. 30-32, (March/April 2000)	
	OOO	"Drilling conference promises to be informative," Drilling Contractor, p. 10, (January/February 2002)	
	PPP	"Underbalanced and Air Drilling," OGCI, Inc., http://www.ogci.com/course_info.asp?courseID=410 , 2 pages, (2003)	
	QQQ	"2003 SPE Calendar," Society of Petroleum Engineers, Google cache of http://www.spe.org/spe/cda/views/events/eventMaster/0,1470,1648_2194_632303,00.html ; for "mud cap drilling," 2 pages, (2001)	
	RRR	"Oilfield Glossary: reverse-circulating valve," Schlumberger Limited, 1 page (2003)	
	SSS	MURPHY, ROSS D. and THOMPSON, PAUL B., "A drilling contractor's view of underbalanced drilling," World Oil Magazine, Vol. 223, No. 5, 9 pages, (May 2002)	
	TTT	"Weatherford UnderBalanced Services: General Underbalance Presentation to the DTI," 71 unnumbered pages, © 2002	
mm	UUU	RACH, NINA M., "Underbalanced, near-balanced drilling are possible offshore," Oil & Gas Journal, Color Copies, pp. 39-44, (December 1, 2003)	

Examiner Signature	<i>Willie Allen</i>	Date Considered	8/15/05
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nm	VVV	FORREST, NEIL; BAILEY, TOM; HANNEGAN, DON; "Subsea Equipment for Deep Water Drilling Using Dual Gradient Mud System," SPE/IADC 67707, pp.1-8, (© 2001, SPE/IADC Drilling Conference)	
	WWW	HANNEGAN, D.M.; BOURGOYNE JR., A.T.; "Deepwater Drilling with Lightweight Fluids - Essential Equipment Required," SPE/IADC 67708, pp. 1-6, (© 2001, SPE/IADC Drilling Conference)	
	XXX	HANNEGAN, DON M., "Underbalanced Operations Continue Offshore Movement," SPE 68491, pp. 1-3, (© 2001, Society of Petroleum Engineers, Inc.)	
	YYY	HANNEGAN, D. and DIVINE, R., "Underbalanced Drilling - Perceptions and Realities of Today's Technology in Offshore Applications," IADC/SPE 74448, pp.1-9, (© 2002, IADC/SPE Drilling Conference)	
	ZZZ	HANNEGAN, DON M. and WANZER, GLEN; "Well Control Considerations - Offshore Applications of Underbalanced Drilling Technology," SPE/IADC 79854, pp.1-14, (© 2003, SPE/IADC Drilling Conference)	
	AAAA	BYBEE, KAREN, "Offshore Applications of Underbalanced-Drilling Technology," Journal of Petroleum Technology, Cover Page and pp. 51-52, (January 2004)	
	BBBB	BOURGOYNE, DARRYL A.; BOURGOYNE, ADAM T.; HANNEGAN, DON; "A Subsea Rotating Control Head for Riserless Drilling Applications," IADC International Deep Water Well Control Conference, pp. 1-14, (August 26-27, 1998)	
	CCCC	LAGE, ANTONIO C.V.M; SANTOS, HELIO; SILVA, PAULO R.C.; "Drilling With Aerated Drilling Fluid From a Floating Unit Part 2: Drilling the Well," Society of Petroleum Engineers, SPE 71361, pp.1-11, (September 30 - October 3, 2001) (see document BBB)	
	DDDD	FURLOW, WILLIAM; "Shell's seafloor pump, solids removal key to ultra-deep, dual-gradient drilling (Skid ready for commercialization)," Offshore World Trends and Technology for Offshore Oil and Gas Operations, Cover page, table of contents, pp.54, 2 unnumbered pages, and 106, (June 2001)	
	EEEE	ROWDEN, MICHAEL V.; "Advances in riserless drilling pushing the deepwater surface string envelope (Alternative to seawater, CaCl2 sweeps)," Offshore World Trends and Technology for Offshore Oil and Gas Operations, Cover page, table of contents, pp.56, 58, and 106, (June 2001)	
nm	FFFF	BOYLE, JOHN; "Multi Purpose Intervention Vessel Presentation," M.O.S.T. Multi Operational Service Tankers, Weatherford International, January 2004, 43 pages, (© 2003)	

Examiner Signature	<i>Michael V. Rowden</i>	Date Considered	8/15/05
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